

## Foreword

The 1999 Oil & Gas Conference was cosponsored by the U.S. Department of Energy (DOE), Office of Fossil Energy, Federal Energy Technology Center (FETC) and National Petroleum Technology Office (NPTO) on June 28 to 30 in Dallas, Texas.

DOE sponsors technology research and development for the oil and natural gas industries. Periodically, DOE presents the results of this research in a conference format to provide technology transfer to interested parties and to keep the public informed. The Oil & Gas Conference theme, *Technology Options for Producer Survival*, reflects the need for development and implementation of new technologies to ensure an affordable, reliable energy future.

The conference was attended by nearly 250 representatives from industry, academia, national laboratories, DOE, and other Government agencies. Three preconference workshops (*Downhole Separation Technologies: Is it Applicable for Your Operations*, *Exploring and developing Naturally Fractured Low-Permeability Gas Reservoirs from the Rocky Mountains to the Austin Chalk*, and *Software Program Applications*) were held. The conference agenda included an opening plenary session, three platform sessions (Sessions 2 and 3 were split into 2 concurrent topics), and a poster presentation reception. The platform session topics were *Converting Your Resources Into Reserves* (Sessions 1 and 2A), *Clarifying Your Subsurface Vision* (Session 2B), and *High Performance, Cost Effective Drilling, Completion, Stimulation Technologies* (Session 3B). In total, there were 5 opening speakers, 30 presenters, and 16 poster presentations.

The papers and presentations in this document were produced primarily from electronic files provided by the authors. They have been neither refereed nor extensively edited. The conference Proceedings was provided to participants on a CD-ROM. The papers and presentations are also available on the FETC home page at <http://www.fetc.doe.gov> (see Publications).

We acknowledge the Session Chairs for their help in making this conference a success: Opening Session — Philip D. Vasquez; Session 1 — Dan Ferguson and Thomas H. Mroz; Session 2A — Patrick Lowry, Dan Ferguson, and Thomas H. Mroz; Session 2B — Robert Lemmon and William J. Gwilliam; Session 3A — Rhonda P. Lindsey and Charles A. Komar; and Session 3B — Cindy A. Reece, Jim Barnes, and Roy Long.

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